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United States Patent and Trademark Office UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION N 1,0/565,917 Takashi Miyoshi OOCL2672004OP5181 7766 08/21/2009 **EXAMINER** Straub & Pokotylo CAMBY, RICHARD M Building B 2nd Floor 620 Tinton Avenue PAPER NUMBER Tinton Falls, NJ 07724-3260 3661 MAIL DATE **DELIVERY MODE**

Please find below and/or attached an Office communication concerning this application or proceeding.

08/21/2009

PAPER

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

		Applicati	on No.	Applicant(s)	
	Office Asticu Commence	10/565,9	17	MIYOSHI ET AL.	
	Office Action Summary	Examine		Art Unit	
		Richard N	· ·	3661	
Period fo	 The MAILING DATE of this commun or Reply 	ication appears on th	e cover sheet with the c	orrespondence ad	ldress
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M resions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to tee to reply within the set or extended period for reply reply received by the Office later than three months and ad patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF TI of 37 CFR 1.136(a). In no ex nunication. atutory period will apply and v will, by statute, cause the app	HIS COMMUNICATION ent, however, may a reply be tim rill expire SIX (6) MONTHS from plication to become ABANDONE	I. the mailing date of this c (35 U.S.C. § 133).	
Status					
1)[]	Responsive to communication(s) file	ed on .			
		2b)⊠ This action is r	non-final.		
3)	Since this application is in condition			secution as to the	e merits is
,	closed in accordance with the practi	•	•		
Dispositi	on of Claims				
4)🖂	Claim(s) 1-19 is/are pending in the a	application.			
	4a) Of the above claim(s) is/a	re withdrawn from co	nsideration.		
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-19 is/are rejected.				
7)	Claim(s) is/are objected to.			}	
8)□	Claim(s) are subject to restrict	ction and/or election	equirement.		
Applicati	on Papers				
9)	The specification is objected to by th	e Examiner.			
10)	The drawing(s) filed on is/are:	a) accepted or b	objected to by the I	Examiner.	
	Applicant may not request that any obje				
	Replacement drawing sheet(s) including	the correction is requi	red if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).
11)[The oath or declaration is objected to	b by the Examiner. N	ote the attached Office	Action or form P	ΓΟ-152.
Priority ι	ınder 35 U.S.C. § 119				
	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority	documents have been	en received.		
	2. Certified copies of the priority3. Copies of the certified copies application from the Internation	of the priority docum	ents have been receive		Stage
* 5	See the attached detailed Office action	on for a list of the cert	ified copies not receive	d.	
Attach	*/o.\				
Attachmen 1) Notice	t(s) e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)	
2) Notic	e of Draftsperson's Patent Drawing Review (F	PTO-948)	Paper No(s)/Mail Da	ate	
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		5) Notice of Informal P 6) Other:	atent Application	

Application/Control Number: 10/565,917

Art Unit: 3661

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 7-81604 in view of JP 11-144185 and JP 2001-76128.

The JP reference '604 discloses a vehicle equipped with a automatic steering system that uses a CCD camera to capture points in time as images to convert them into coordinate values to indicate the location of the lanes of traffic as described in paragraphs 8, 12-14, 28 and 58. The JP '185 reference discloses an automatic steering system that calculates an immediate future route that the vehicle needs to travel to continue running safely in the lane without hitting any other vehicles. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of JP '604 with the safe running calculation of JP '185 in order to have less accidents. The JP ' 128 discloses representing a road from a zone that is not found on the road and filled with traffic obstacles by comprehending associated texture data. It uses a stereo camera for capturing 3D data. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the modified device of JP '604 with a 3D camera and zone detection as taught by JP '128 in order to have better resolution.

Art Unit: 3661

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard M. Camby whose telephone number is (571) 272-6958. The examiner can normally be reached on Tues-Fri 9:00 a.m.-7:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard M. Camby/ Primary Examiner, Art Unit 3661

Applicant(s)/Patent Under Application/Control No. Reexamination 10/565,917 MIYOSHI ET AL. Notice of References Cited **Art Unit** Examiner Page 1 of 1 Richard M. Camby 3661 **U.S. PATENT DOCUMENTS Document Number** Date Name Classification Country Code-Number-Kind Code MM-YYYY 03-2009 180/169 Kaufmann et al. Α US-7,510,038 11-2007 Suzuki et al. 701/23 US-7,302,321 701/207 US-6,772,062 08-2004 Lasky et al. С US-D US-Ε US-F US-G USн US-US-J US-Κ US-L US-М FOREIGN PATENT DOCUMENTS **Document Number** Date Classification Country Name Country Code-Number-Kind Code MM-YYYY Ν 0 Р Q R s Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: OOCL-267 (2004OP518-1)

Applicants: Takashi MIYOSHI, et al.

Serial No.: 10/565,917

Filing Date: January 25, 2006

Title: SAFE MOVEMENT SUPPORT APPARATUS

Examiner: Not yet assigned

Group Art Unit: 3661

Commissioner for Patents P.O. Box 1450
Alexandria, VA 22313-1450

SIR:

Information Disclosure Statement Transmittal

The applicants respectfully request that the references listed on the attached PTO/SB/08A be considered in the examination of the above-identified application. A copy of each of these references is enclosed. An English language translation of each non-English language reference is also enclosed.

The applicants reserve the right to establish that any of the references listed on the attached PTO/SB/08A are not prior art to the above-captioned application.

Since a first Office Action on the merits has not yet been received, the applicants assume that this Information Disclosure

Statement should be considered under 37 C.F.R. §§ 1.97(b)(3). Accordingly, it is believed that no fee is due.

If, however, an Office Action on the merits has been mailed before the filing date of this Information Disclosure Statement, these references should be considered under 37 C.F.R. § 1.97(c)(1).

Certification Under 37 C.F.R. § 1.97 (e)(1)

I hereby certify that each item of information contained in the information disclosure statement submitted herewith was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

No fee is believed due. However, in the event that a fee is due in order to have the Information Disclosure Statement submitted herewith considered, the Patent Office is authorized to charge the fee to the deposit account of Straub & Pokotylo, deposit account number 50-1049.

Respectfully submitted,

April 18, 2007

John C. Pokotylo, Attorney

Reg. No. 36,242

Customer No. 26479

(732) 542-9070

STRAUB & POKOTYLO 620 Tinton Avenue Bldg. B, 2nd Floor Tinton Falls, NJ 07724-3260



CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being deposited on April 18, 2007 with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

John C. Pokotylo

36,242___ Reg. No.

10565917 - GAU: 3661

(modified PTC)/SB/08A)					
			of Commerce		10/565,917	
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	s many sheets as			Examiner Name:	Not yet assigned	
Sheet	1	of	1	Attorney Docket No.:	OOCL-267 (2004OP518-1)	

		U.S. P.	ATENT DOCUMENTS		
Examiner Cite	U.S. Patent Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where retevant Passages or Figures appear	
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Examiner Initials*	Cite No.1	Foreign Patent Document Office 3 Number 4	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	JP	11-144185	05-28-1999	HONDA MOTOR CO., LTD.		Х

	1 0	OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS	Τī
Examiner Initials* :	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source	
:	JQ	Japanese Office Action for application no. 2003-203494, dated February 6, 2007 (2 pgs.)(with translation, 2 pgs.)	
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Examiner	/Richard Camby/ (08/18/2009)	Date	08/18/2009
Signature	, ,	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language translation is attached.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: OOCL-267 (2004OP518-1)

Applicants: Takashi MIYOSHI et al.

Serial No.: 10/565,917

Filing Date: January 25, 2006

Title: SAFE MOVEMENT SUPPORT APPARATUS

Examiner: Not yet assigned

Group Art Unit: Not yet assigned

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SIR:

Information Disclosure Statement Transmittal

The applicants respectfully request that the references listed on the attached PTO/SB/08A be considered in the examination of the above-identified application. A copy of each of these references, except for U.S. patents and patent application publications, is enclosed. (See the notice, "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003," Pre-OG Notices (July 11, 2003).)

English language abstracts are provided for non-English language references JP-06-266828, JP-07-065294, JP-07-081604, JP-08-221698, JP-10-283593, JP-2000-339596, JP-2001-109519,

JP-2001-076128, JP-2001-273597, JP-2003-121543 and JP-2004-053278. An English-language translation of paragraphs [0007]-[0014], [0027]-[0029] and [0056]-[0063] of JP-07-081604 is also provided. An English language translation of paragraphs [0002]-[0005] and [0020]-[0022] of JP-2001-076128 is also provided.

Further, non-English language reference JP-07-065294 (3153839) is discussed in the body of the specification starting at line 10 of page 1. Non-English language reference JP-06-266828 (3324821) is discussed in the body of the specification starting at line 12 of page 2. Non-English language reference JP-7-192199 is discussed in the body of the specification starting at line 22 of page 2. Non-English language reference JP-08-221698 (3212235) is discussed in the body of the specification starting at line 7 of page 4. Non-English language reference JP-10-283593 is discussed in the body of the specification starting at line 9 of page 5.

Non-English language reference JP-11-144185 corresponds to U.S. Patent No. 6,169,940. Non-English language reference JP-7-192199 corresponds to U.S. Patent No. 5,530,420.

The applicants reserve the right to establish that any of the references listed on the attached PTO/SB/08A are not prior art to the above-captioned application.

Since a first Office Action on the merits has not yet been received, the applicants assume that this Information Disclosure Statement should be considered under 37 C.F.R. §§ 1.97(b)(3).

Accordingly, it is believed that no fee is due. If, however, an Office Action on the merits has been mailed before the filing

date of this Information Disclosure Statement, the Office is authorized to charge any fee required to have the Information Disclosure Statement considered to the deposit account of Straub & Pokotylo, deposit account number 50-1049.

Respectfully submitted,

Dated: April 26, 2006

John C. Pokotylo, Attorney

Reg. No. 36,242 Customer No. 26479 (732) 542-9070

STRAUB & POKOTYLO 620 Tinton Avenue Bldg. B, 2nd Floor Tinton Falls, NJ 07724-3260

CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being deposited on April 26, 2006 with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

John O. Pokotylo

36,242 Reg. No.

	(modified PTO/SB/08A)			
	U.S. Department of Commerce Patent and Trademark Office		Complete if Known	
(STATEMENT BY APPLICANT (use as mally sheets as necessary) MAY 0 1 2006	Application Number: Filing Date: First Named Inventor: Group Art Unit: Examiner Name:	10/565,917 January 25, 2006 Takashi MIYOSHI Not yet assigned Not yet assigned	
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No. U.S. Patent Document Number MM-DD-YYYY Name of Patentee or Applicant of Cited Document Pages, Colument Where relevant F rigures ap	CA CHARLES	5 /			
No. Number No. Number Number		•	U.S. P	PATENT DOCUMENTS	
АВ 6,169,940 01-02-2001 ЛТSUKATA et al.	Examiner Cite	U.S. Patent Document Number	MM-DD-YYYY		Pages, Columns, Lines where relevant Passages or Figures appear
	AA	5,530,420	06-25-1996	TSUCHIYA et al.	
	AB	6,169,940	01-02-2001	JITSUKATA et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ¢
	AC	JP-06-266828	09-22-1994	FUЛ HEAVY IND. LTD.		
	AD	JP-07-065294	03-10-1995	MITSUBISHI ELECTRIC CORP.		
	AE	JP-07-081604	03-28-1995	HONDA MOTOR CO. LTD.		
	AF.	JP-11-144185	05-28-1995			
	AG	JP-7-192199	07-28-1995			
	AH	JP-08-221698	08-30-1996	MITSUBISHI ELECTRIC CORP.		
	AI	JP-10-283593	10-23-1998	FUJI HEAVY IND. LTD.		
	AJ	JP-2000-339596	12-08-2000	FUЛ HEAVY IND. LTD.		
	AK	JP-2001-076128	03-23-2001	TOSHIBA CORP.	•	
	AL	JP-2001-109519	04-20-2001	KOMATSU LTD.		
	AM	JP-2001-273597	10-05-2001	MAZDA MOTOR CORP.	•	
	AN	JP-2003-121543	04-23-2003	NISSAN MOTOR CO. LTD.		
	AO	JP-2004-053278	02-19-2004	NISSAN MOTOR CO. LTD.		

Signature /Richard Camby/ (06/16/2009) Considered 08/18/2009	Examiner Signature	/Richard Camby/ (08/18/2009)	Date Considered	08/18/2009
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /RC/

(modified PTO/SB/08A)

U.S. Department of Commerce Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

2 5 Complete if Known

application Number: 10/565,917

First Named Inventor: Takashi MIYOSHI

Group Art Unit: 366

Examiner Name: Not yet assigned

Sheet 1 of 1 Attorney Docket No.: OOCL-267 (2004OP518-1)

	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	U.S. Patent Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where relevant Passages or Figures appear			
	AR	US 2003/069695 A1	04-10-2003	MASAYUKI				
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Examiner Initials*	Cite No.	Foreign Patent Document Office 3 Number 4	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	AS	EP 0 795 700 A2	09-17-1997	TOYOTA MOTOR CO LTD		
	AT	WO 03/001471 A	01-03-2003	DAIMLER CHRYSLER AG	1	
	AU	EP 1 288 072 A	03-05-2003	AISIN SEIKI		
					 	
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		OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source	T
.	AV	Bertozzi M., et al., "Sensing of Automotive Environments Using Stereo Vision," <u>International Symposium of Automotive Technology and Automation</u> , pp. 187-193 (June 16, 1997).	
	AW	Franke U., et al., "Real-time Stereo Vision for Urban Traffic Scene Understanding," Proceedings of the IEEE Intelligent Vehicles Symposium 2000, pp. 273-278 (October 2000).	
	AX	Supplementary European Search Report, to European Patent Application No. 04770848.2-2215 PCT/JP2004010338, dated August 20, 2007 (4 pgs.).	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language translation is attached.

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	U.S. PATENT DOCUMENTS							
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	AY	European Communication for European Patent Application No. 04 770 848.2-2215, dated September 2, 2008 (5 pgs.)	
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language translation is attached.